PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 2004-PCT01	FOR FURTHER ACTION	See item 4 below
		Priority date (day/month/year) 28 December 2003 (28.12.2003)
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237	
Applicant ARAI MEDICAL INSTRUMENTS,	INC.	

	·	-	•			
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.					
Ē	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	3. This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial			
	Box No. IV	Lack of unity of invention	·			
	Box No. V Reasoned statement under applicability; citations and		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement			
	Box No. VI	Certain documents cited				
	Box No. VII Certain defect		national application			
	Box No. VIII	Certain observations on the	e international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).					
			Date of issuance of this report 22 August 2006 (22.08.2006)			
	The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Authorized officer Yoshiko Kuwahara			
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 2004-PCT01 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/019723 22,12,2004 28.12.2003 International Patent Classification (IPC) or both national classification and IPC Applicant ARAI MEDICAL INSTRUMENTS, INC. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Telephone No.

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019723

Box	No. I	Basis of this opinion			
1.		regard to the language, this opinion unless otherwise indicated under t	on has been established on the basis of the international application in the language in which it was his item.		
		This opinion has been established	on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under		
	-	Rule 12.3 and 23.1(b)).			
2.		regard to any nucleotide and/ontion, this opinion has been establis	r amino acid sequence disclosed in the international application and necessary to the claimed shed on the basis of:		
	a.	type of material			
		a sequence listing	•		
		table(s) related to the seque	nce listing		
	b.	format of material			
		in written format	•		
		in computer readable form			
	c.	time of filing/furnishing			
		contained in the internation	al application as filed.		
		filed together with the inter-	national application in computer readable form.		
		furnished subsequently to the	nis Authority for the purposes of search.		
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	Add	itional comments:			
		- e	·		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019723

Box		nt under Rule 4301s.1(a)(i) with regard to novelly, inventive step or industrial applicability anations supporting such statement	;
1.	Statement		
	Novelty (N)	Claims 5, 9	YES
		Claims 1-4, 6, 7, 8	NO
	Inventive step (IS)	Claims	YES
		Claims 1-9	_ NO
	Industrial applicability (IA)	Claims 1-9	YES
		Claims	NO
2.	Citations and explanations:		
		0402 A (Koito Manufacturing Co., Ltd.), 11 April 1988, page r right column, lines 3 to 16; Figs. 1 to 4	
		9175 A (Sanyo Electric Co., Ltd.), 13 February 1998, page 2, 2, lines 36 to 42; Fig. 1	
	Document 3: JP 2003	3-101077 A (Pentax Kabushiki Kaisha), 04 April 2003, page 3,	

Document 4: JP 2003-186427 A (Yazaki Corp.), 04 July 2003, page 3, column 4,

line 45 to page 4, column 5, line 4; Figs. 1, 2

column 4, lines 14 to 22; Fig. 2

Document 5: JPJP 08-106260 A (Hitachi Media Electronics Co., Ltd.), 23 April 1996, page 4, column 6; lines 1 to 6; Figs. 15, 16

Claim 1

The invention of claim 1 does not appear to possess novelty or to involve an inventive step based on document 1 or 5 cited in the ISR.

Document 1 describes an optical diffusing element comprising a lens and a reflecting surface formed by coating a white coating. As described by the applicant in page 7, lines 2-4 of the description, the feature of a reflecting surface formed by a white coating being a reflecting/diffusing surface is within the well-known knowledge of a person skilled in the art.

The diffusing/reflecting surface and the lens described in document 1, of course, are items for controlling output light of a LED. Therefore, it is undeniably obvious that such optical elements afford illumination distribution control, keeping such distribution uniform to a certain extent.

Document 5 describes an optical diffusing element having a light-transmission section and a diffusing section.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: $Box\ V$

Claims 2-4, 6 and 8

The invention of claims 2-4, 6 and 8 do not appear to possess novelty or to involve an inventive step based on document 1 cited in the ISR, for the same reasons stated regarding claim 1.

Claims 5 and 9

The invention of claims 5 and 9 do not appear to involve an inventive step based on documents 2, 3 or 4 cited in the ISR.

In addition to the subject matter illustrated for claim 1, document 1 describes providing a reflecting / diffusing surface on the inner surface of a rectangular parallelepiped (Fig. 2, compartment 22).

Also, forming a reflecting surface in the shape of a tubular inner surface is merely a design variant for embodying this technology, and thus an arbitrary design choice made by a person skilled in the art in accordance with the used embodiment, as described for instance in documents 2-4.

Therefore, no particular difficulty can be discerned in shaping as a tubular inner surface the diffusing /reflecting surface described in document 1.

Claim 7

The invention of claim 7 does not appear to possess novelty or to involve an inventive step based on document 5 cited in the ISR. Document 5 describes an optical diffusing element provided with a diffusing section that comprises a translucent scattering member.